115

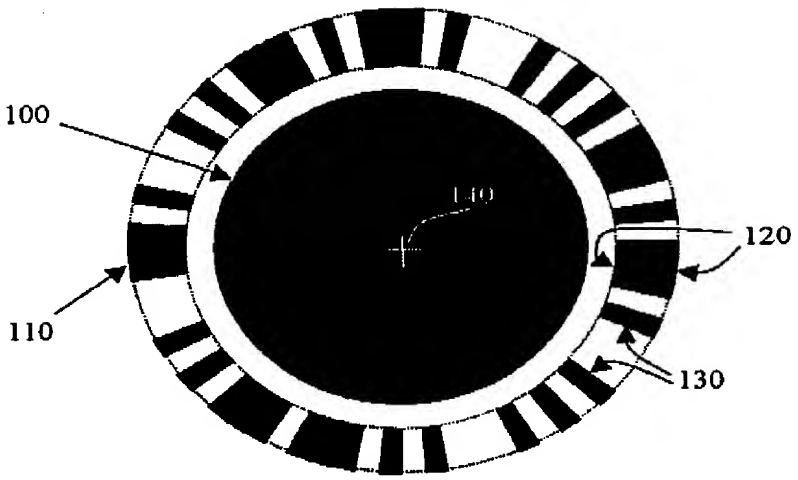

Figure 1

EPO - DG 2 24. 07. 2001 (22)

215

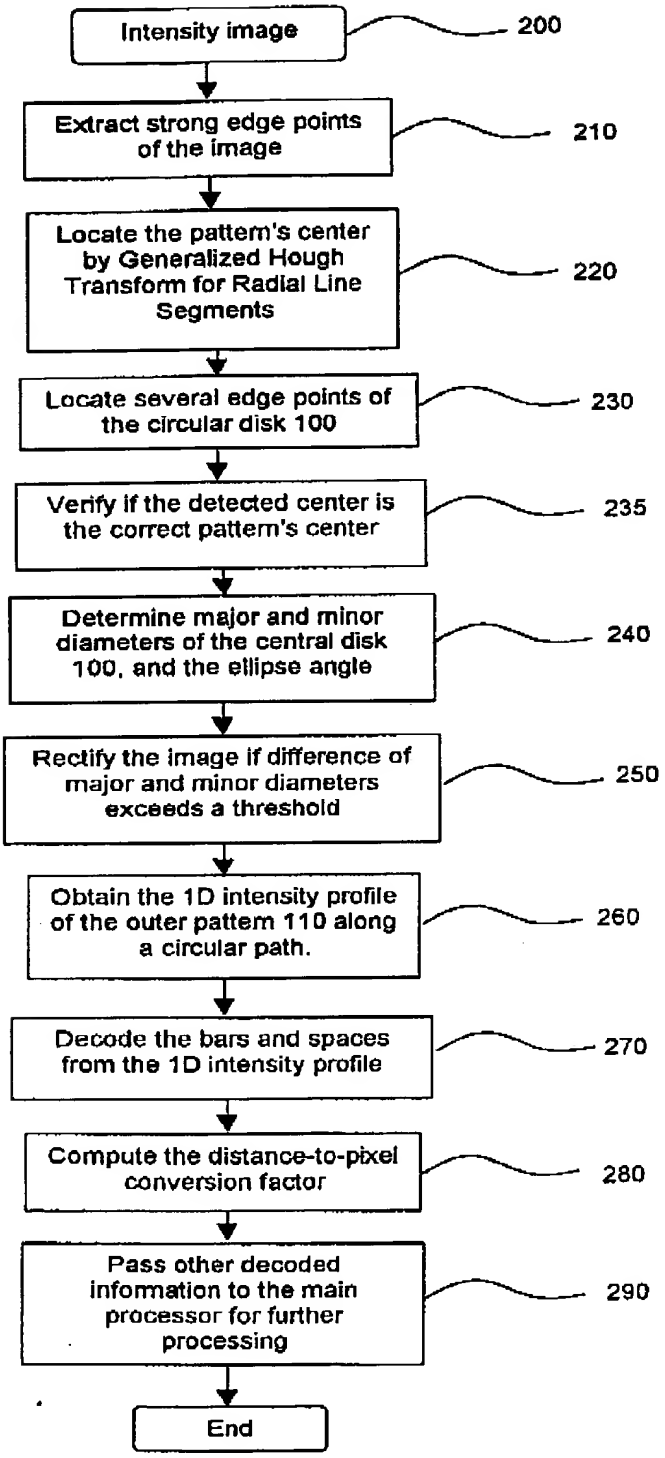
Intensity image
200
Extract strong edge points of the image
210
Locate the pattern's center by Generalized Hough Transform for Radial Line Segments
220
Locate several edge points of the circular disk 100
230
Verify if the detected center is the correct pattern's center
235
Determine major and minor diameters of the central disk 100, and the ellipse angle
240
Rectify the image if difference of major and minor diameters exceeds a threshold
250
Obtain the 1D intensity profile of the outer pattern 110 along a circular path.
260
Decode the bars and spaces from the 1D intensity profile
270
Compute the distance-to-pixel conversion factor
280
Pass other decoded information to the main processor for further processing
290
End

Figure 2

315

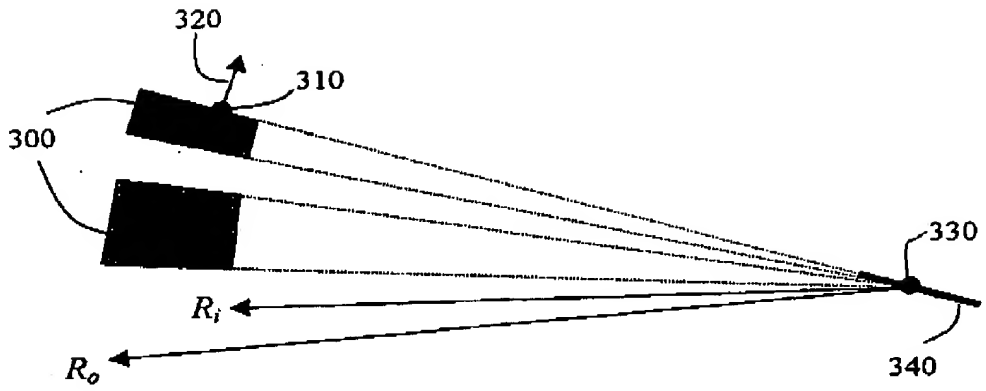

Figure 3

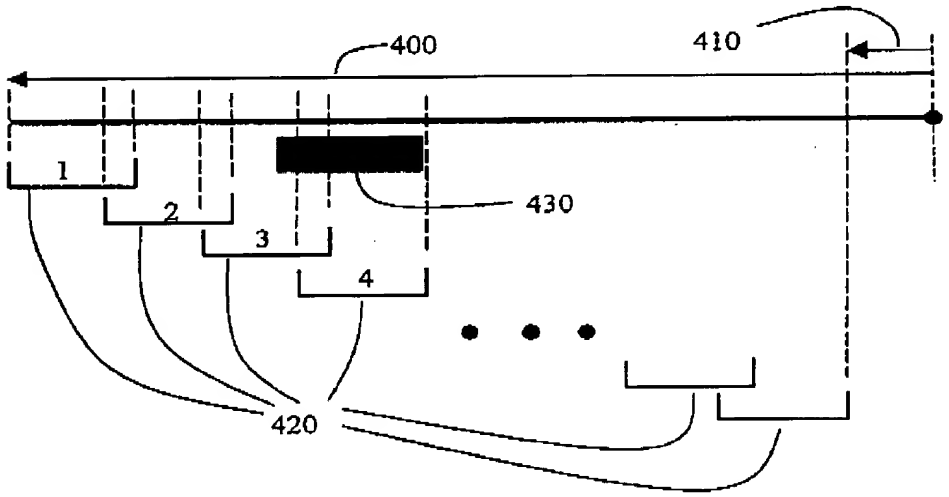

Figure 4

415

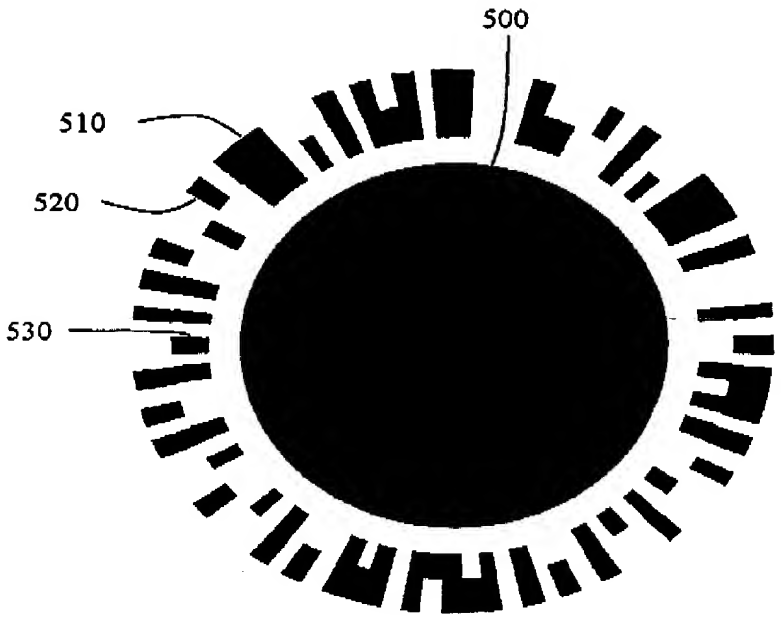

Figure 5

5/5

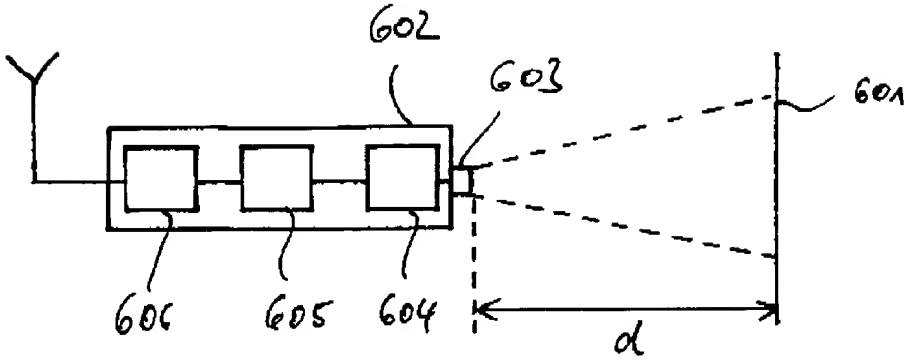

Figure 6

EPO - DG 1 24. 07. 2001 17:22:08